

File 340: CLAIMS (R) / US Patent 1950-99/Sep 07

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Set	Items	Description
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S1	7048	NUCLEIC
S2	275900	ACID
S3	6232	NUCLEIC()ACID
S4	3312	GENE/BC
S5	6077	DNA/BC
?s s3/bc		
S6	3390	S3/BC
?s s4 or s5 or s6		
	3312	S4
	6077	S5
	3390	S6
S7	10523	S4 OR S5 OR S6
?ss identity/bc or identical/bc		
S8	2725	IDENTITY/BC
S9	28435	IDENTICAL/BC
S10	31055	IDENTITY/BC OR IDENTICAL/BC
?s s7 and s10		
	10523	S7
	31055	S10
S11	300	S7 AND S10

DIALOG(R) File 340: CLAIMS(R) /US Patent
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3190027 9926789

C/MOLECULES OF THE FOLLISTATIN-RELATED PROTEIN FAMILY AND USES THEREOF R

Document Type: UTILITY

Inventors: Holtzman Douglas A (US)

Assignee: Millennium BioTherapeutics Inc

	Patent Number	Issue Date	Applic Number	Applic Date
Patent:	US 5942420	19990824	US 97972008	19971117
Priority Applic:			US 97972008	19971117

Abstract:

Novel FMCP polypeptides, proteins, and nucleic acid molecules are disclosed. In addition to isolated, full-length FMCP proteins, the invention further provides isolated FMCP fusion proteins, antigenic peptides and anti-FMCP antibodies. The invention also provides FMCP nucleic acid molecules, recombinant expression vectors containing a nucleic acid molecule of the invention, host cells into which the expression vectors have been introduced and non-human transgenic animals in which a FMCP gene has been introduced or disrupted. Diagnostic, screening and therapeutic methods utilizing compositions of the invention are also provided.

Exemplary Claim:

D R A W I N G

1. An isolated nucleic acid molecule comprising a nucleotide sequence which encodes an amino acid sequence which is at least 55% identical to the amino acid sequence of SEQ ID NO:2 with or without the signal peptide or an amino acid sequence encoded by the nucleotide sequence of the DNA insert of the plasmid deposited with ATCC as Accession Number 98546.



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3190024 9926786

C/CD44-LIKE PROTEIN AND NUCLEIC ACIDS

Document Type: **UTILITY**

Inventors: Dillon Patrick J (US); Gentz Reiner L (US); Ni Jian (US)

Assignee: Human Genome Sciences Inc Assignee Code: 38350

Patent Number	Issue Date	Applc Number	Applc Date
Patent: US 5942417	<u>19990824</u>	US 97892880	19970715
Priority Applc:		US 97892880	19970715
Provisional Applc:		US 60-21762	19960715

Abstract:

The present invention concerns a novel CD44-like protein receptor. In particular, isolated nucleic acid molecules are provided encoding the CD44-like protein. CD44-like polypeptides are also provided, as are screening methods for identifying agonists and antagonists capable of enhancing or inhibiting CD44-like protein-mediated signaling. The invention further concerns therapeutic methods for treating diseases associated with processes mediated by CD44-like protein signaling.

Exemplary Claim:

D R A W I N G

1. An isolated nucleic acid molecule comprising a polynucleotide selected from the group consisting of: (a) a polynucleotide encoding amino acids from about -21 to about 301 of SEQ ID NO:2; (b) a polynucleotide encoding amino acids from about -20 to about 301 of SEQ ID NO:2; (c) a polynucleotide encoding amino acids from about 1 to about 301 of SEQ ID NO:2; (d) a polynucleotide encoding the same polypeptide encoded by the cDNA contained in ATCC Deposit No. 97520; (e) a polynucleotide encoding the same mature CD44-like polypeptide encoded by the cDNA contained in ATCC Deposit No. 97520; (f) a polynucleotide encoding amino acids from about 1 to about 217 of SEQ ID NO:2; (g) a polynucleotide encoding amino acids from about 246 to about 301 of SEQ ID NO:2; (h) a polynucleotide encoding amino acids from about 1 to about 217 and about 246 to about 301 of SEQ ID NO:2; (i) the polynucleotide complement of the polynucleotide of (a), (b), (c), (d), (e), (f), (g), or (h); and (j) a polynucleotide at least 95% identical to the polynucleotide of (a), (b), (c), (d), (e), (f), (g), (h), or (i).

DIALOG(R) File 340: CLAIMS (R) /US Patent
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2995523 9819908

C/GENES ENCODING ART, AN AGOUTI-RELATED TRANSCRIPT; GENE EXPRESSION

Document Type: UTILITY

Inventors: Luethy Roland (US); Stark Kevin Lee (US)

Assignee: Amgen Inc Assignee Code: 12117

	Patent Number	Issue Date	Applic. Number	Applic. Date
Patent:	US 5766877	19980616	US 96757541	19961127
Priority Applic.:			US 96757541	19961127
Provisional Applic.:			US 60-17505	199605
Calculated Expiration:	20161127			

Abstract:

Disclosed is a novel gene termed ART which is expressed primarily in selected regions of the brain, as well as adrenal and lung tissues. Polypeptides encoded by ART are also disclosed, as are methods for preparing ART DNA and amino acid sequences.

Exemplary Claim:

D R A W I N G

1. An isolated nucleic acid molecule, wherein the nucleic acid molecule is selected from the group consisting of: (a) the nucleic acid molecule of SEQ ID NO:4; (b) the nucleic acid molecule of SEQ ID NO:5; (c) the nucleic acid molecule of SEQ ID NO:6; (d) the nucleic acid molecule of SEQ ID NO:9; (e) a nucleic acid molecule encoding the polypeptide of SEQ ID NO:8; (f) a nucleic acid molecule encoding the polypeptide of SEQ ID NO:10; (g) a nucleic acid molecule encoding the polypeptide of SEQ ID NO:11; and (h) a nucleic acid molecule that encodes a polypeptide that has at least 80 percent sequence identity with the polypeptides of SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:10, or SEQ ID NO:11.



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3019725 9827249

C/VERTEBRATE EMBRYONIC PATTERN-INDUCING PROTEINS AND USES RELATED THERETO

Document Type: UTILITY

Inventors: Ingham Philip W (GB); McMahon Andrew P (US); Tabin Clifford J (US)

Assignee: Harvard College, President & Fellows of Assignee Code: 00542

	Patent	Issue	Applic	Applic
	Number	Date	Number	Date
Patent:	US 5789543	19980804	US 93176427	19931230
Priority Applic:			US 93176427	19931230

Abstract:

The present invention concerns the discovery that proteins encoded by a family of vertebrate genes, termed here hedgehogrelated genes, comprise morphogenic signals produced by embryonic patterning centers, and are involved in the formation of ordered spatial arrangements of differentiated tissues in vertebrates. The present invention makes available compositions and methods that can be utilized, for example to generate and/or maintain an array of different vertebrate tissue both in vitro and in vivo.

Exemplary Claim:

D R A W I N G

1. A recombinantly produced polypeptide comprising a hedgehog amino acid sequence which is at least 80 percent identical to a sequence selected from the group consisting of SEQ ID. NO. 2, SEQ ID. NO. 4, SEQ ID. NO. 6, SEQ ID. NO. 8, and SEQ ID. NO. 10, which hedgehog amino acid sequence (i) induces expression of a ptc gene (ii) regulates differentiation of neuronal cells, (iii) regulates survival of differentiated neuronal cells, (iv) regulates proliferation of chondrocytes, (v) regulates spermatogenesis, (vi) induces expression of a Hoxd gene, or (vii) functionally replaces drosophila hedgehog in transgenic drosophila.



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3026444 9828535

C/EPH RECEPTOR LIGANDS, AND USES RELATED THERETO; TYROSINE KINASES, CELL DIFFERENTIATION

Document Type: UTILITY

Inventors: Cheng Hwai-Jong (US); Flanagan John G (US)

Assignee: Harvard College, President & Fellows of Assignee Code: 00542

	Patent Number	Issue Date	Applic Number	Applic Date
Patent:	US 5795734	19980818	US 95455001	19950531
Cont.-in-part of:			US 94308814	19940919
			US 95393462	19950227
Priority Applic:			US 95455001	19950531
			US 94308814	19940919
			US 95393462	19950227

Abstract:

The present invention relates to the discovery of a novel EPH receptor ligand, referred to hereinafter as "Elf-1", which protein has apparently broad involvement in the formation and maintenance of ordered spatial arrangements of differentiated tissues in vertebrates, and can be used to generate and/or maintain an array of different vertebrate tissue both in vitro and in vivo.

Exemplary Claim:

D R A W I N G

1. An isolated nucleic acid encoding a recombinant polypeptide, which polypeptide comprises an Elf-1 polypeptide sequence at least 70 percent identical to an amino acid sequence selected from the group consisting of SEQ ID Nos. 2 and 4, and portions thereof, and which Elf-1 polypeptide specifically binds to an EPH-type receptor.



DIALOG(R) File 340: CLAIMS (R) /US Patent
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3043832 9832511

C/CAULIFLOWER FLORAL MERISTEM IDENTITY GENES AND METHODS OF USING SAME;
KIT FOR CONVERTING SHOOT MERISTEM TO FLORAL MERISTEM IN ANGIOSPERMS;
PROMOTES EARLY FLOWERING

Document Type: UTILITY

Inventors: Yanofsky Martin F (US)

Assignee: California, University of Regents Assignee Code: 13234

	Patent Number	Issue Date	Applc Number	Applc Date
Patent:	US 5811536	19980922	US 96592214	19960126
Priority Applc:			US 96592214	19960126

Calculated Expiration: 20160126

Abstract:

The present invention provides a nucleic acid molecule encoding a CAULIFLOWER (CAL) gene product such as a nucleic acid molecule encoding *Arabidopsis thaliana* CAL and a nucleic acid molecule encoding *Brassica oleracea* CAL (BoCAL). The invention also provides a nucleic acid molecule encoding a truncated CAL gene product such as a nucleic acid molecule encoding *Brassica oleracea* var. *botrytis* CAL (BobCAL). The invention also provides a nucleic acid containing the *Arabidopsis thaliana* CAL gene, a nucleic acid molecule containing the *Brassica oleracea* CAL gene and a nucleic acid molecule containing the *Brassica oleracea* var. *botrytis* CAL gene. The invention further provides a kit for converting shoot meristem to floral meristem and a kit for promoting early flowering in an angiosperm. The invention provides a CAL polypeptide and an antibody that specifically binds CAL polypeptide. In addition, the invention provides the truncated BobCAL polypeptide and an antibody that specifically binds truncated BobCAL polypeptide. The invention further provides a method of identifying a *Brassica* having a modified CAL allele by detecting a polymorphism associated with a CAL locus, where the CAL locus comprises a modified CAL allele that does not encode an active CAL gene product.

Exemplary Claim:

D R A W I N G

1. An isolated nucleic acid molecule encoding a CAULIFLOWER (CAL) gene product having at least about 89 percent amino acid identity with amino acids 1 to 160 of the *Arabidopsis* CAL sequence shown in FIG. 5 (SEQ ID NO:10).



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3050718 9834027

C/NEUROGENE; POLYPEPTIDE TERMINATED NEURITIN WHICH IS EXPRESSED PRIMARY IN
BRAIN TISSUE

Document Type: UTILITY

Inventors: Citri Yoav deceased (IL); Naeve Gregory Scott (US); Theill Lars
Ryde (US)

Assignee: Amgen Inc; Yeda Research & Development Co Ltd IL Assignee Code:
12117 93576

	Patent Number	Issue Date	Applic Number	Applic Date
Patent:	US 5817784	19981006	US 96694579	19960809
Priority Applic:			US 96694579	19960809

Calculated Expiration: 20160809

Abstract:

Disclosed are DNA and amino acid sequences for a novel polypeptide termed Neuritin which is expressed primarily in selected regions of the brain.

Exemplary Claim:

D R A W I N G

1. An isolated nucleic acid molecule encoding a polypeptide which promotes neuritogenesis in hippocampal or cortical neuronal cultures, wherein the nucleic acid molecule is selected from the group of nucleic acid molecules consisting of: (a) the nucleic acid molecule of SEQ ID NO:1; (b) the nucleic acid molecule of SEQ ID NO:2; (c) a nucleic acid molecule encoding the polypeptide of SEQ ID NO:3; (d) a nucleic acid molecule encoding the polypeptide of SEQ ID NO:4; and (e) a nucleic acid molecule that encodes a polypeptide that is at least 70 percent identical to the polypeptide of SEQ ID NO:3 or SEQ ID NO:4.



WILLIAMS, MORGAN & AMERSON, P.C.7676 Hillmont, Suite 250, Houston, TX 77040
(713) 934-7000 Fax (713) 934-7011**Fax****To:** Examiner Peter Tung, Ph.D.**From:** Shelley P.M. Fussey, Ph.D.

SPE Achutamurthy, Ph.D.

Fax: (703) 308-0294**Phone:** 713-934-4079**No. of
Pages:**

8

Date: September 15, 1999**Re:** Support for Identity Language**File:** Serial No. 08/951,188

4200.000200 (IOWA:012; N7-20)

 Urgent **For Review** **Please Comment** **Please Reply** **Please Handle**

* w/o coversheet

ORIGINAL: X Will not follow**Comments:**

Dear Examiner Tung and SPE Achutamurthy, thank you both for your patience and guidance with the referenced application. Before leaving the office, I had time to conduct a quick search and have asked my secretary to fax you the results.

You will see that the search addresses "percent identity" in recently issued nucleic acid claims (up to August 1999). This should help resolve the one outstanding issue in our case. Although the computer could not search the term "%" (as it is not a word), simply by sifting through some records with the terms "nucleic acid" and "identity", I was able to identify some claims similar in style to the ones at issue.

I am away from the office for this week, but hope to speak to you next week. Thanks again for your time.

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